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**Serial Number: 10/711888**

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## Inventor Information for 10/711888

Inventor Name	City	State/Country
DAROLIA, RAMGOPAL	WEST CHESTER	OHIO
DAROLIA, RAMGOPAL	WEST CHESTER	OHIO
WEAVER, MATTHEW MARK	LOVELAND	OHIO
WEAVER, MATTHEW MARK	LOVELAND	OHIO
CORBLY, DENNIS MARTIN	DAYTON	OHIO
CORBLY, DENNIS MARTIN	DAYTON	OHIO
MOVCHAN, BORIS ALEXEEVICH	KYIV	UKRAINE
MOVCHAN, BORIS ALEXEEVICH	KYIV	UKRAINE
USTINOV, ANATOLII IVANOVICH	KYIV	UKRAINE
USTINOV, ANATOLII IVANOVICH	KYIV	UKRAINE

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US 6616969 B2	20030909	Apparatus and method for selectively coating internal and external surfaces of an airfoil	427/237	427/252; 427/253; 427/282	Pfaendtner; Jeffrey A. et al.
US 6607611 B1	20030819	Post-deposition oxidation of a nickel-base superalloy protected by a thermal barrier coating	148/277	148/285; 148/527; 148/537	Darolia; Ramgopal
US 6599568 B2	20030729	Method for cooling engine components using multi-layer barrier coating	427/230	427/239; 427/275; 427/402; 427/404; 427/419.2; 427/419.3; 427/554; 428/697	Lee; Ching-Pang et al.
US 6586115 B2	20030701	Yttria-stabilized zirconia with reduced thermal conductivity	428/633	416/241B; 428/307.3; 428/469; 428/699; 428/701; 428/702	Rigney; Joseph David et al.

US 6582772 B2	20030624	Method for preparing an article with a hafnium-silicon-modified platinum-aluminide bond or environmental coating	427/404	427/376.1; 427/383.1; 427/383.3; 427/383.7; 427/405; 427/419.1; 427/419.2	Rigney; Joseph D. et al.
US 6579627 B1	20030617	Nickel-base superalloy with modified aluminide coating, and its preparation	428/632	416/241R; 428/652; 428/668; 428/680	Darolia; Ramgopal et al.
US 6576067 B2	20030610	Fabrication of an article having a protective coating with a polished, pre-oxidized protective-coating surface	148/277	148/285; 427/248.1; 427/250; 427/255.32	Spitsberg; Irene et al.
US 6571857 B2	20030603	Processing of nickel aluminide material	164/57.1	148/556; 420/590	Darolia; Ramgopal et al.
US 6565672 B2	20030520	Fabrication of an article having a protective coating with a flattened, pre-oxidized protective-coating surface	148/277	148/285; 427/248.1; 427/250; 427/255.32; 428/469; 428/472.2; 428/623	Spitsberg; Irene et al.
US 6558813 B2	20030506	Article having a protective coating and an iridium-containing oxygen barrier layer	428/632	205/257; 205/264; 427/252; 428/469; 428/652; 428/670	Darolia; Ramgopal
US 6551061 B2	20030422	Process for forming micro cooling channels inside a thermal barrier coating system without masking material	416/97A	29/889; 416/241B	Darolia; Ramgopal et al.
US 6544665 B2	20030408	Thermally-stabilized thermal barrier coating	428/633	416/241B; 428/304.4; 428/332; 428/338; 428/469; 428/697; 428/699; 428/702	Rigney; Joseph David et al.
US 6528118 B2	20030304	Process for creating structured porosity in	427/258	427/250; 427/252;	Lee; Ching-Pang et al.

		thermal barrier coating		427/255.32; 427/255.7; 427/272; 427/282; 427/448; 427/456; 427/596	
US 6521294 B2	20030218	Aluminiding of a metallic surface using an aluminum-modified maskant, and aluminum-modified maskant	427/253	427/255.19; 427/255.21; 427/259; 427/261; 427/282	Rigney; Joseph D. et al.
US 6514629 B1	20030204	Article with hafnium-silicon-modified platinum-aluminum bond or environmental coating	428/632	416/241R; 428/652; 428/654; 428/670; 428/680; 428/941	Rigney; Joseph D. et al.
US 6511762 B1	20030128	Multi-layer thermal barrier coating with transpiration cooling	428/697	416/241B; 416/97R; 428/131; 428/133; 428/140; 428/218; 428/304.4; 428/307.3; 428/309.9; 428/469; 428/632; 428/699; 428/702	Lee; Ching-Pang et al.
US 6499949 B2	20021231	Turbine airfoil trailing edge with micro cooling channels	416/97R	29/889.2; 416/241R	Schafrik; Robert Edward et al.
US 6492038 B1	20021210	Thermally-stabilized thermal barrier coating and process therefor	428/627	428/304.4; 428/317.9; 428/469; 428/632; 428/698; 428/699; 428/701; 428/702	Rigney; Joseph David et al.
US 6482469 B1	20021119	Method of forming an improved aluminide bond coat for a thermal barrier coating system	427/250	427/255.7; 427/309; 427/376.6	Spitsberg; Irene T. et al.

US 6475642 B1	20021105	Oxidation-resistant coatings, and related articles and processes	428/636	148/325; 148/333; 148/425; 148/426; 148/428; 148/429; 148/442; 148/516; 148/527; 148/535; 420/104; 420/110; 420/127; 420/35; 420/437; 420/447; 420/448; 420/460; 420/469; 420/472; 420/551; 420/552; 420/580; 420/63; 420/68; 420/69; 420/70; 420/77; 420/80; 420/96; 428/680; 428/681	Zhao; Ji-Cheng et al.
US 6464456 B2	20021015	Turbine vane assembly including a low ductility vane	415/134	415/191; 415/209.2	Darolia; Ramgopal et al.
US 6461746 B1	20021008	Nickel-base superalloy article with rhenium-containing protective layer, and its preparation	428/632	416/241R; 428/469; 428/655; 428/678; 428/680; 428/699; 428/701	Darolia; Ramgopal et al.
US 6461108 B1	20021008	Cooled thermal barrier coating on a turbine blade tip	416/96R	29/889.1; 416/241R	Lee; Ching-Pang et al.
US 6461107	20021008	Turbine blade tip having	416/96R	29/889.1;	Lee; Ching-

B1		thermal barrier coating-formed micro cooling channels		416/241R	Pang et al.
US 6455167 B1	20020924	Coating system utilizing an oxide diffusion barrier for improved performance and repair capability	428/472.2	416/241R; 428/469; 428/472; 428/702	Rigney; Joseph D. et al.
US 6444057 B1	20020903	Compositions and single-crystal articles of hafnium-modified and/or zirconium-modified nickel-base superalloys	148/428	420/448	Darolia; Ramgopal et al.
US 6437991 B1	20020820	Radioelectronic unit	361/794	174/260; 174/261; 361/780	Rog; Andrey L. et al.
US 6436473 B1	20020820	Graded reactive element containing aluminide coatings for improved high temperature performance and method for producing	427/252	148/240; 205/192; 427/253; 427/255.7; 427/379; 427/383.7	Darolia; Ramgopal et al.
US 6375425 B1	20020423	Transpiration cooling in thermal barrier coating	416/97R	29/889.721; 416/241B	Lee; Ching-Pang et al.
US 6344282 B1	20020205	Graded reactive element containing aluminide coatings for improved high temperature performance and method for producing	428/652	416/241R; 428/678; 428/680; 428/941	Darolia; Ramgopal et al.
US 6332926 B1	20011225	Apparatus and method for selectively coating internal and external surfaces of an airfoil	118/721	118/504; 118/505; 118/720; 118/723VE	Pfaendtner; Jeffrey A. et al.
US 6306524 B1	20011023	Diffusion barrier layer	428/621	428/632; 428/651; 428/652; 428/654; 428/670; 428/680	Spitsberg; Irene T. et al.
US 6291084 B1	20010918	Nickel aluminide coating and coating systems formed therewith	428/633	416/241B; 416/241R; 428/621; 428/652; 428/680	Darolia; Ramgopal et al.
US 6283714	20010904	Protection of internal and	416/241R	415/217.1;	Rigney; Joseph

B1		external surfaces of gas turbine airfoils		416/241B	D. et al.
US 6273678 B1	20010814	Modified diffusion aluminide coating for internal surfaces of gas turbine components	415/200	29/889.7; 416/229A; 416/241B; 416/241R; 427/181; 427/182; 427/237; 427/252; 427/454; 428/469; 428/472; 428/632	Darolia; Ramgopal
US 6255001 B1	20010703	Bond coat for a thermal barrier coating system and method therefor	428/610	204/192.15; 416/241R; 427/250; 427/405; 427/456; 427/566; 428/621; 428/623; 428/632; 428/633; 428/652; 428/678; 428/679; 428/680	Darolia; Ramgopal
US 6190471 B1	20010220	Fabrication of superalloy articles having hafnium- or zirconium-enriched protective layer	148/537	148/527; 428/680	Darolia; Ramgopal et al.
US 6153313 A	20001128	Nickel aluminide coating and coating systems formed therewith	428/632	416/241B; 416/241R; 428/652; 428/680	Rigney; Joseph D. et al.
US 5834070 A	19981110	Method of producing protective coatings with chemical composition and structure gradient across the thickness	427/566	427/126.1; 427/126.2; 427/126.3; 427/567	Movchan; Boris A. et al.
US 5712050 A	19980127	Superalloy component with dispersion-containing protective coating	428/680	416/241R; 428/614; 428/678	Goldman; Edward Harvey et al.
US 5686785 A	19971111	Electron gun having	313/453	219/121.26;	Movchan;

		electrically isolated and adjustable cathode		219/121.27; 313/454; 313/459	Boris A. et al.
US 5516380 A	19960514	NiAl intermetallic alloy and article with improved high temperature strength	148/404	148/409; 148/429; 415/200; 416/241R	Darolia; Ramgopal et al.
US 5482789 A	19960109	Nickel base superalloy and article	428/652	148/404; 148/410; 148/428; 428/670; 428/680	O'Hara; Kevin S. et al.
US 5470371 A	19951128	Dispersion strengthened alloy containing in-situ-formed dispersoids and articles and methods of manufacture	75/229	148/410; 148/514; 419/11; 419/29; 419/49; 419/53; 75/236; 75/243; 75/246; 75/343	Darolia; Ramgopal
US 5316866 A	19940531	Strengthened protective coatings for superalloys	428/621	148/410; 420/443; 420/448; 428/632; 428/633; 428/678; 428/680	Goldman; Edward H. et al.
US 5296274 A	19940322	Method of producing carbon-containing materials by electron beam vacuum evaporation of graphite and subsequent condensation	427/566	427/122; 427/274; 427/576; 427/577; 427/580; 427/586	Movchan; Boris A. et al.
US 5242479 A	19930907	Apparatus and method for producing carbide coatings	75/10.13	423/346; 423/440	Movchan; Boris A. et al.
US 5215831 A	19930601	Ductility Ni-Al intermetallic compounds microalloyed with iron	428/614	148/404; 148/409; 148/429; 415/200; 416/223R; 416/241R; 420/459	Darolia; Ramgopal et al.
US 5151249 A	19920929	Nickel-based single	420/445	148/404;	Austin; Curtiss



		crystal superalloy and method of making		148/428; 148/675; 420/443	M. et al.
US 5116691 A	19920526	Ductility microalloyed NiAl intermetallic compounds	428/614	148/404; 415/200; 416/241R; 420/445; 420/450; 420/460	Darolia; Ramgopal et al.
US 5116438 A	19920526	Ductility NiAl intermetallic compounds microalloyed with gallium	148/404	420/460; 420/550; 428/608	Darolia; Ramgopal et al.
US 5100484 A	19920331	Heat treatment for nickel-base superalloys	148/562	148/404; 148/410; 148/675	Wukusick; Carl S. et al.
US 5043138 A	19910827	Yttrium and yttrium-silicon bearing nickel-base superalloys especially useful as compatible coatings for advanced superalloys	420/443	106/286.4; 106/286.5; 420/445; 428/614; 428/680	Darolia; Ramgopal et al.
US 4950331 A	19900821	Ceramic flux for welding low-alloy steels	106/313	106/228; 148/24; 148/26; 75/10.53; 75/10.54	Pokhodnya; Igor K. et al.
US 4922995 A	19900508	Method of producing monolithic metal blanks by freezing-on techniques	164/469	164/122; 164/483; 164/494	Movchan; Boris A. et al.
US 4849030 A	19890718	Dispersion strengthened single crystal alloys and method	148/562	148/404; 148/410; 148/675	Darolia; Ramgopal et al.
US 4312599 A	19820126	High temperature article, article retainer, and cushion	403/29	415/137; 416/241B	Darolia; Ramgopal
US 4276764 A	19810707	Die set for sizing sections	72/275	72/340; 72/464; 83/618; 83/694	Kozhevnikov; Vladislav A. et al.
US 4219363 A	19800826	Process for the preparation of Portland cement clinker	106/745	106/753; 106/757; 106/768	Tokar; Vladimir A. et al.
US 4130460 A	19781219	Fuel assembly for fast reactor	376/418	376/352; 376/412; 376/434;	Iljunin; Vladimir G. et al.

				376/443; 376/445; 976/DIG.60; 976/DIG.67	
US 4128419 A	19781205	Nickel-base alloy	420/448	148/410; 148/675; 420/443	Terekhov; Kuzma I. et al.
US 4126811 A	19781121	Electron gun with linear thermionic cathode for electron-beam heating	313/453	219/121.12; 219/121.27	Movchan; Boris A. et al.
US 4121647 A	19781024	Method of producing a multilayer metal ingot by the electro-beam remelting of billets	164/494	164/94	Paton; Boris Evgenievich et al.
US 4105890 A	19780808	Device for electron-beam heating of materials	219/121.26	219/121.28; 313/431; 330/4.7	Movchan; Boris A. et al.
US 3875785 A	19750408	DIE FOR SIZING ROLLED SECTIONS	72/340	72/464; 83/914	Anisimov; Albert Viktorovich et al.
US 3821979 A	19740702	ELECTRON-BEAM FURNACE FOR REMELTING ELECTRODES	164/506	164/258; 164/323; 164/512	Paton; Boris Evgenievich et al.
US 3814829 A	19740604	DEVICE FOR ELECTRON-BEAM HEATING OF MATERIALS MAINLY FOR THEIR MELTING AND EVAPORATION	373/14	219/121.15; 219/121.26; 219/121.28; 219/121.33	Movchan; Boris Alexeevich et al.
US 3800850 A	19740402	ELECTRON BEAM MELTING INSTALLATION	164/506	164/258; 164/512	Paton; Boris Evgenievich et al.
US 3768305 A	19731030	INSTALLATION FOR TESTING PRESSURE TIGHTNESS OF CHECK VALVE CLOSING ELEMENT	73/45.5	73/46	Pechko; Mikail Alexeevich et al.
US 3749149 A	19730731	METHOD AND AN ELECTRON-BEAM FURNACE FOR INGOT PRODUCTION	164/494	141/283; 164/136; 164/94	Paton; Boris Evgenievich et al.
US 3593923 A	19710720	GAS BURNER	239/418	239/423; 431/160; 431/177	Soliterman; Natan Davydovich et

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